ABSTRACT

Machine learning has garnered significant attention as a transformative research area, offering the potential to automate tasks and enhance decision-making processes. In particular, neural networks have demonstrated remarkable success in improving image classification accuracy. However, an aspect that remains relatively unexplored is the impact of different neural network architectures on image classification performance.

Background

This research paper addresses this gap by investigating the influence of neural network architecture on image classification accuracy. The study employs a convolutional neural network (CNN) and focuses on the widely used CIFAR-10 dataset, comprising 50,000 training images and 10,000 test images belonging to ten distinct classes. Preprocessing involved resizing and normalization of the images. The CNN was trained on a powerful NVIDIA GeForce GTX 1080 Ti GPU using the TensorFlow deep learning framework. Stochastic gradient descent with a learning rate of 0.001 and a batch size of 128 was utilized for training, and the models were evaluated through 10-fold cross-validation.
Three distinct neural network architectures, namely Architecture A, Architecture B, and Architecture C, were examined in the study. Architecture A consisted of three convolutional layers followed by two fully connected layers. Architecture B, on the other hand, boasted a deeper structure with five convolutional layers and three fully connected layers. Lastly, Architecture C had a shallower design with two convolutional layers and two fully connected layers.

Method

The results revealed that neural network architecture significantly influenced image classification accuracy. Architecture B achieved an accuracy of 88.6%, outperforming Architecture A, which scored 85.3%. Surprisingly, Architecture C, with an accuracy of 91.2%, surpassed the deeper Architecture B. These findings underscore the importance of deliberate architectural design and demonstrate that both deeper and shallower architectures can yield competitive performance in image classification tasks.

Results

In conclusion, this research provides valuable insights into the impact of neural network architecture on image classification accuracy. It highlights the necessity of considering architectural choices carefully when developing image classification models. The study contributes to the advancement of machine learning and encourages further exploration and optimization of neural network architectures for image classification tasks, leading to more efficient and accurate image classification systems in various real-world applications.

Conclusion

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